

Please type a plus sign (+) inside this box:

PTO/SB/81 (11-98)

Approved for use through 6/30/99. OMB 0651-0035

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**POWER OF ATTORNEY OR  
AUTHORIZATION OF AGENT,  
NOT ACCOMPANYING  
APPLICATION**

Application Number	08/872,659 (CIP)
Filing Date	6/10/97
First Named Inventor	Sandor Nagy
Group Art Unit	1713
Examiner Name	R. Rabago
Attorney Docket Number	016199/1110 / 88-S9465A

I hereby appoint:

Practitioners at Customer Number

Place Customer  
Number Bar Code  
Label here

OR

Practitioner(s) named below:

Name	Registration Number
Dennis M. Kozak	28,318
Jonathan L. Schuchardt	34,428
Kevin M. Carroll	44,596
Shao Guo	44,728
William A. Heidrich, III	29,932
Alec H. Horn	29,544

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

The above-mentioned Customer Number.

OR

<input checked="" type="checkbox"/> Firm or Individual Name	Jonathan L. Schuchardt				
Address	Lyondell Chemical Company				
Address	3801 West Chester Pike				
City	Newtown Square	State	PA	ZIP	19073
Country	United States of America				
Telephone	(610) 359-2276	Fax	(610) 359-2414		

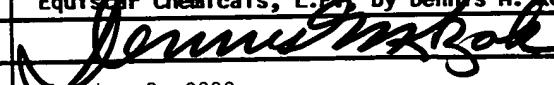
I am the:

Applicant.

Assignee of record of the entire interest  
*Certificate under 37 CFR 3.73(b) is enclosed*

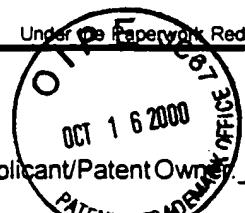
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MAIL ROOM

SIGNATURE of Applicant or Assignee of Record

Name	Equisorb Chemicals, L.P. by Dennis M. Kozak, Assistant Secretary	
Signature		
Date	October 3, 2000	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner:

**Equistar Chemicals, L.P.**

08/423,232 (Parent Case)

4/17/95

Application/Parent Patent No.:

08/872,659 (CIP)

Filed/Issue Date: 6/10/97

Entitled:

TRANSITION METAL CATALYSTS CONTAINING BIDENTATE LIGANDS AND METHOD OF  
USING AND PREPARING SAME**Equistar Chemicals, L.P.**, a **Limited Partnership**

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1.  the assignee of the entire right, title, and interest; or
2.  an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Sandor Nagy, et al. To: Lyondell Petrochemical Company  
The document was recorded in the Patent and Trademark Office at  
Reel 9189, Frame 0046, or for which a copy thereof is attached. Application No. 08/423,232
2. From: Lyondell Petrochemical Company To: Equistar Chemicals, L.P.  
The document was recorded in the Patent and Trademark Office at  
Reel 9614, Frame 0140, or for which a copy thereof is attached. Application No. 08/872,659
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
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[ ] Additional documents in the chain of title are listed on a supplemental sheet.

 Copies of assignments or other documents in the chain of title are attached.

**[NOTE:** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

October 3, 2000

Date

Signature

Dennis M. Kozak

Typed or printed name

Assistant Secretary

Title

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UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JULY 28, 1998

PTAS

LIDDELL SAPP ZIVLEY HILL & LABOON LLP  
JOHN WILSON JONES  
IPT DOCKET MANAGER, 34TH FLOOR  
600 TRAVIS SUITE 3400  
HOUSTON, TX 77002-3095



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NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT LSZH & L, LLP

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE  
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CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/24/1997

REEL/FRAME: 9189/0046  
NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
NAGY, SANDOR

DOC DATE: 12/02/1997

ASSIGNOR:  
KRISHNAMURTI, RAMESH

DOC DATE: 12/02/1997

ASSIGNOR:  
TYRELL, JOHN A.

DOC DATE: 12/02/1997

ASSIGNOR:  
CRIBBS, LEONARD V.

DOC DATE: 12/02/1997

ASSIGNOR:  
COCOMAN, MARY

DOC DATE: 12/02/1997

ASSIGNOR:  
ETHERTON, BRADLEY

DOC DATE: 12/02/1997

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ASSIGNEE:

LYONDELL PETROCHEMICAL CO.  
1221 MCKINNEY, SUITE 1600  
HOUSTON, TEXAS 77002

SERIAL NUMBER: 08872659  
PATENT NUMBER:

FILING DATE: 06/10/1997  
ISSUE DATE:

TARA WASHINGTON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

05-29-1998

FACSIMILE OF FORM PTO-1595

RECC

U.S. DEPARTMENT OF COMMERCE

100723276

PATENT AND TRADEMARK OFFICE

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

## 1. Name of conveying party(ies):

Sandor Nagy  
 Ramesh Krishnamurti  
 John A. Tyrell  
 Leonard V. Cribbs  
 Mary Cocoman  
 Bradley Etherton



## 2. Name and address of receiving party(ies):

Name: Lyondell Petrochemical Co.

Internal Address:

Street Address: 1221 McKinney, Suite 1600City: Houston State: TX Zip: 77002Additional name(s) of conveying party(ies) attached?  Yes  No

## 3. Nature of conveyance:

Assignment  
 Security Agreement  
 Other \_\_\_\_\_

Merger  
 Change of Name

Execution Date: December 2, 1997

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

## A. Patent Application No.(s)

08/872,659

## B. Patent No.(s)

Additional numbers attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Attn: IPT Docket Manager,  
34th FloorInternal Address:  
Liddell Sapp Zivley Hill & LaBoon LLPStreet Address:  
600 Travis Suite 3400City: Houston State: TX Zip: 77002-3095

6. Total number of applications and patents involved: .....

1

7. Total fee (37 C.F.R. 3.41) ..... \$40.00

Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number:  
12-1322 (016199-1110)

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## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John Wilson JonesDate: May 13, 1998

Total number of pages including cover sheet, attachments and document:

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03-06-1998

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PATENT AND TRADEMARK OFFICE

To the Honorable Commissioner of Patents and Trademarks

1. Name of conveying party(ies):

Nagy, et al.

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: December 2, 1997

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

08/872,659

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Attn: IPT Docket Manager,  
34th Floor

Internal Address:

Liddell Sapp Zivley Hill &amp; LaBoon LLP

Street Address:

600 Travis Suite 3400

City: Houston State: TX Zip: 77002-3095

6. Total number of applications and patents involved: .....

/

7. Total fee (37 C.F.R. 3.41) ..... \$40.00

 Enclosed Authorized to be charged to deposit account

8. Deposit account number:

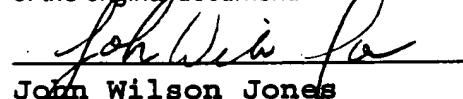
12-1322(016199-1110)

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 John Wilson Jones

Date: December 12, 1997

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 8 2000  
 1997

Total number of pages including cover sheet, attachments and document:

8

ASSIGNMENT

WHEREAS, We, Sandor Nagy, Ramesh Krishnamurti, John A. Tyrell, Leonard V. Cribbs, Mary Cocoman, Bradley Etherton are the joint inventors of Transition Metal Catalysts Containing Bidentate Ligands and Method of Using and Preparing Same, application for United States Letters Patent, Serial No.08/872,659, filed June 10, 1997;

WHEREAS, LYONDELL PETROCHEMICAL COMPANY, a corporation created and existing under and by virtue of the laws of the State of Delaware, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by LYONDELL PETROCHEMICAL COMPANY and for other good and valuable consideration, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over to LYONDELL PETROCHEMICAL COMPANY, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by LYONDELL PETROCHEMICAL COMPANY for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to LYONDELL PETROCHEMICAL COMPANY, as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to LYONDELL PETROCHEMICAL COMPANY, its successors, assigns, or other legal representatives and that if LYONDELL PETROCHEMICAL COMPANY, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring

thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

And we do further covenant and agree that we will, at any time upon request, communicate to LYONDELL PETROCHEMICAL COMPANY, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 2 day of December, 1991.

Sandor Nagy  
Sandor Nagy

STATE OF NEW YORK  
COUNTY OF Erie

§  
§  
§

BEFORE ME, the undersigned authority, on this day personally appeared Sandor Nagy, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 2 day of  
December, 1991.

John M. Weller  
NOTARY PUBLIC IN AND FOR  
THE STATE OF NEW YORK

JOHN M. WELLER  
Certificate #100-000000  
Notary Public, State of New York  
Commission Expires 2/28/84

\*\*\*\*\*

EXECUTED THIS 3<sup>rd</sup> day of December, 1997.

R. K. K.  
Ramesh Krishnamurti

STATE OF NEW YORK  
COUNTY OF

§  
§  
§

BEFORE ME, the undersigned authority, on this day personally appeared Ramesh Krishnamurti, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 2 day of  
December, 1997.

Linda M. Wallace

NOTARY PUBLIC IN AND FOR  
THE STATE OF NEW YORK

LINDA M. WALLACE  
Certificate No. 100-12345678  
Notary Public, State of New York  
Commission Expires 31 Dec 1998

EXECUTED THIS 20<sup>th</sup> day of December, 1947.

Don A. Tjalk

John A. Tyrell

STATE OF NEW YORK

8

**COUNTY OF**

ست

11

300

BEFORE ME, the undersigned authority, on this day personally appeared John A. Tyrell, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 2 day of  
*December*, 1992

**NOTARY PUBLIC IN AND FOR  
THE STATE OF NEW YORK**

LINDA M. WELAND  
Certificate #462 in Erie County  
Notary Public, State of New York  
Commission Expires 3/2/17

\*\*\*\*\*

EXECUTED THIS 4 day of December, 1997.

  
Leonard V. Cribbs

STATE OF TEXAS

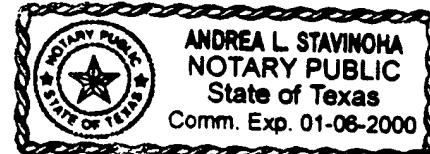
COUNTY OF Brazoria

§  
§  
§

BEFORE ME, the undersigned authority, on this day personally appeared Leonard V. Cribbs, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 4<sup>th</sup> day of December, 1997.

  
ANDREA L. STAVINOHAG  
NOTARY PUBLIC IN AND FOR  
THE STATE OF TEXAS



★ ★ ★ ★ ★ ★ ★ ★ ★ ★

EXECUTED THIS 3 day of December, 1991.

~~Mary Cocoman~~

STATE OF NEW YORK  
COUNTY OF *Five*

BEFORE ME, the undersigned authority, on this day personally appeared Mary Cocoman, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that she executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 2 day of  
*December, 1992*

*Ernest W. Melchior*  
NOTARY PUBLIC IN AND FOR  
THE STATE OF NEW YORK

Commission Expires 3-23-2019  
Notary Public, State of New York

\*\*\*\*\*  
EXECUTED THIS 4<sup>th</sup> day of December, 1997.

Bradley P. Etherton  
Bradley Etherton

STATE OF TEXAS

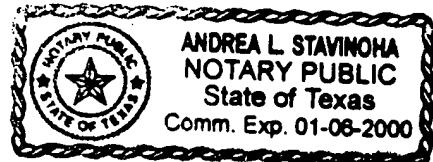
§  
§  
§

COUNTY OF Brazoria

BEFORE ME, the undersigned authority, on this day personally appeared Bradley Etherton, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 4<sup>th</sup> day of December, 1997.

Andrea L. Stavinoha  
NOTARY PUBLIC IN AND FOR  
THE STATE OF TEXAS





MARCH 19, 1999

PTAS

LIDDELL SAPP ZIVLEY HILL & LABOON LLP  
JOHN WILSON JONES  
IPT DOCKET MANAGER, 34TH FLOOR  
SUITE 3400, 600 TRAVIS  
HOUSTON, TX 77002-3095



\*100913513A\*

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

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RECORDATION DATE: 11/30/1998

REEL/FRAME: 9614/0140  
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:

LYONDELL PETROCHEMICAL COMPANY

DOC DATE: 10/08/1998

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ASSIGNEE:

EQUISTAR CHEMICALS, LP  
1221 MCKINNEY STREET  
HOUSTON, TEXAS 77010

SERIAL NUMBER: 08813929  
PATENT NUMBER:

FILING DATE: 03/06/1997  
ISSUE DATE:

SERIAL NUMBER: 08859319  
PATENT NUMBER:

FILING DATE: 05/20/1997  
ISSUE DATE:

SERIAL NUMBER: 08990416  
PATENT NUMBER:

FILING DATE: 11/13/1996  
ISSUE DATE:

SERIAL NUMBER: 08423232  
PATENT NUMBER: 5637660

FILING DATE: 04/17/1995  
ISSUE DATE: 06/10/1997

JACQUELINE MOORE, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

12-07-1998

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## ORDINATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

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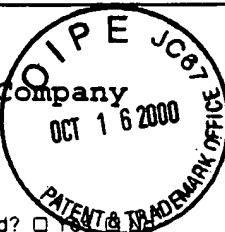
## PATENTS ONLY

PATENT AND TRADEMARK OFFICE

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Lyondell Petrochemical Company



OCT 16 2000

2. Name and address of receiving party(ies):

Name: Equistar Chemicals, LP

Internal Address:

Street Address: 1221 McKinney StreetCity: Houston State: TX Zip: 77010Additional name(s) & address(es) attached?  Yes  NoAdditional name(s) of conveying party(ies) attached?  Yes  No3. Nature of conveyance: MLD 11-30-98

Assignment       Merger  
 Security Agreement       Change of Name  
 Other \_\_\_\_\_

Execution Date: October 8, 1998

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

08/813,929      08/990,416  
08/859,319

B. Patent No.(s)

5,637,660 (Serial No: 08/423,232)Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Attn: IPT Docket Manager,  
34th FloorInternal Address:  
Liddell Sapp Zivley Hill & LaBoon LLPStreet Address:  
600 Travis Suite 3400City: Houston State: TX Zip: 77002-3095

6. Total number of applications and patents involved: .....

4

7. Total fee (37 C.F.R. 3.41) ..... \$160.00 Enclosed Authorized to be charged to deposit account

8. Deposit account number:

12-1322 (016129-00000)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

JOHN WILSON JONES

Name of Person Signing

Signature

11/25/98

Date

12/04/1998 SBURNS 0000084 08813929

160.00 00 Total number of pages including cover sheet, attachments and document

0.00 581

## **ASSIGNMENT**

WHEREAS, LYONDELL PETROCHEMICAL COMPANY (the "ASSIGNOR") is a corporation duly organized and existing under the laws of Delaware and has a principal place of business as 1221 McKinney Street, Houston, Texas 77010;

WHEREAS, the ASSIGNOR owns certain rights in and to certain patents, utility models, and patent applications (whether provisional or otherwise), for the United States of America and other countries foreign thereto;

WHEREAS, EQUISTAR CHEMICALS, LP is a limited partnership organized under the laws of the state of Delaware, having its principal place of business as 1221 McKinney Street, Houston, Texas 77010 (hereinafter, "ASSIGNEE");

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, the ASSIGNOR has agreed to assign and transfer and does hereby assign and transfer unto ASSIGNEE, its successors and assigns, all of the right, title and interest which ASSIGNOR owns in and to the patents, utility models, and patent applications (whether provisional or otherwise), listed on Attachment A (attached hereto and made a part hereof) and in and to any division, continuation or continuation-in-part, of said applications, and in and to any and all Letters Patent and reissues and extensions thereof, of the United States of America and all countries foreign thereto (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties or otherwise), which have been or may be granted on any of the foregoing to be held and enjoyed as fully and exclusively as they would have been by ASSIGNOR had this assignment and transfer not been made;

The ASSIGNOR does further agree to execute and deliver without further consideration any further applications, assignments and documents, and to perform such other acts as may be deemed necessary by said ASSIGNEE, its successors, assigns, and nominees, fully to secure its interest as aforesaid and to obtain or maintain Letters Patent in any and all countries;

And the undersigned do hereby authorize and request the U.S. Commissioner of Patents and Trademarks and the patent offices of all other countries of the world to issue any and all Letters Patent which may be granted upon any of the said applications, to the said ASSIGNEE, as the assignee of the entire interest herein.

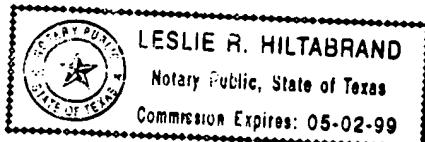
In witness whereof, the undersigned has hereunto executed this document on the day and year set forth below.

LYONDELL PETROCHEMICAL COMPANY

By: Jeffrey R. Pendergraft  
Name: Jeffrey R. Pendergraft  
Title: Senior Vice President

STATE OF TEXAS  
COUNTY OF HARRIS

The foregoing instrument was acknowledged before me the undersigned notary on this 4 day of October, 1998, by Jeffrey R. Pendergraft as the Senior Vice President of LYONDELL PETROCHEMICAL COMPANY, and on behalf thereof.



Leslie R. Hiltabrand  
NOTARY PUBLIC IN AND FOR  
THE STATE OF TEXAS

In witness whereof, the undersigned has hereunto executed this document on the day and year set forth below.

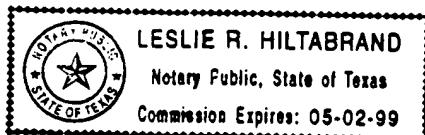
EQUISTAR CHEMICALS, LP

By: Kerry A. Galvin  
Name: Kerry A. Galvin  
Title: Corporate Secretary of Lyondell Petrochemical G.P., Inc.  
General Partner

\* Vice President, General Counsel, & Secretary  
\* Vice President, General Counsel, & Secretary

STATE OF TEXAS  
COUNTY OF HARRIS

The foregoing instrument was acknowledged before me the undersigned notary on this 14 day of October, 1998, by KERRY A. GALVIN, as Corporate Secretary of Lyondell Petrochemical G.P., Inc., a General Partner of EQUISTAR CHEMICALS, LP, and on behalf thereof.



Leslie R. Hiltabrand  
NOTARY PUBLIC IN AND FOR  
THE STATE OF TEXAS